Power Pro UPS 400/600/800

User's Manual

MARUSON® TECHNOLOGY

1 Inspection

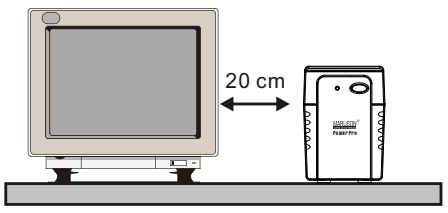
The following items are inside the box:

- User's Manual
- UPS
- Power cord
- RJ11 Cable

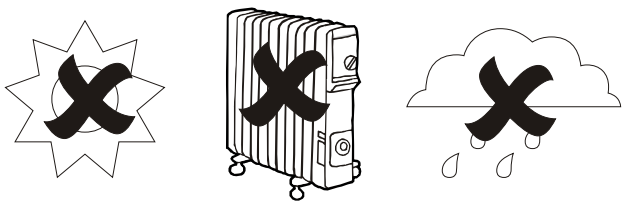
Remove Power Pro UPS from its package and inspect it for damage that may have occurred during,shipping. If any damage is discovered, re-packn the unit and return it to the place of purchase.

2 Place the UPS

Provide 7.8 inch clearance on sides for adequate airflow around the unit when placing beside a monitor.

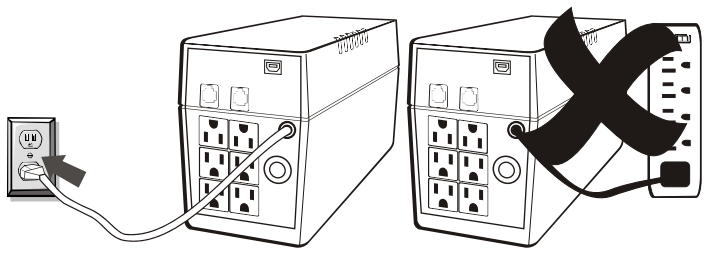


- Avoid direct sunlight.
- Avoid excessive heat.
- Avoid excessive humidity or liquids.
- Avoid excessive dust.

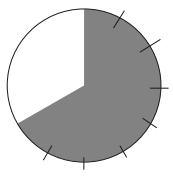


3 Connect UPS to power

Use the power cord that came with your UPS to connect the UPS directly to the wall outlet.



Battery Charging:
The UPS battery charges whenever the UPS is connected to utility power and typically requires less than eight hours to charge fully. Operating runtime is reduced until the battery is fully charged.



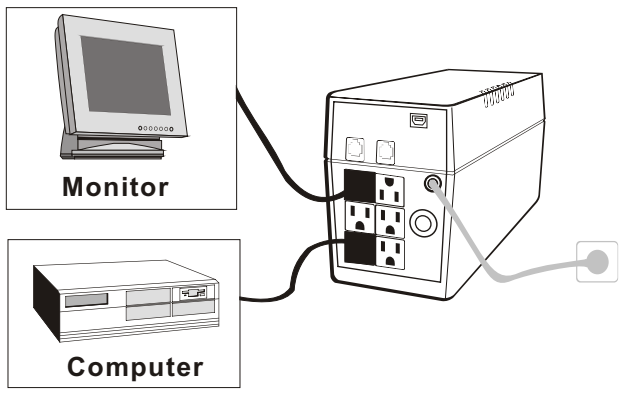
8 hours

4 Connecting equipment to UPS

Connect the equipment to either, Battery Power Supplied or Surge Protection outlets.

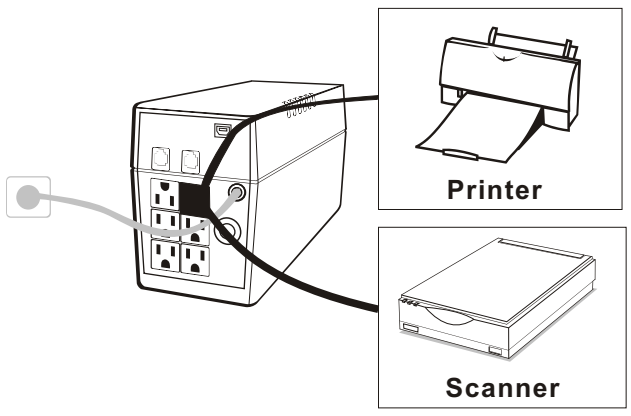
Battery Power Supplied Outlets (3)

Connect computer, monitor, and external drive to the "Battery Power Supplied" outlets. These outlets provide battery backup, EMI filtering, line conditioning, and surge protection. Battery power is automatically provided in case of power failure. **Beware** of the Power Switch it must be kept in the "ON" position, otherwise, the UPS will be disabled and your equipment will not be protected during a power failure.



Full Time Surge Protection Outlets (1)

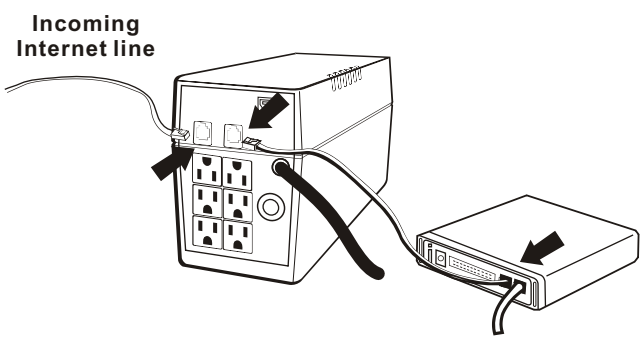
Connect a printer, fax machine, or scanner to the "Full Time Surge Protection Outlet". This outlets does not provide power during power failure.



CAUTION: Do NOT connect a printer to any Battery Power Supplied outlet.

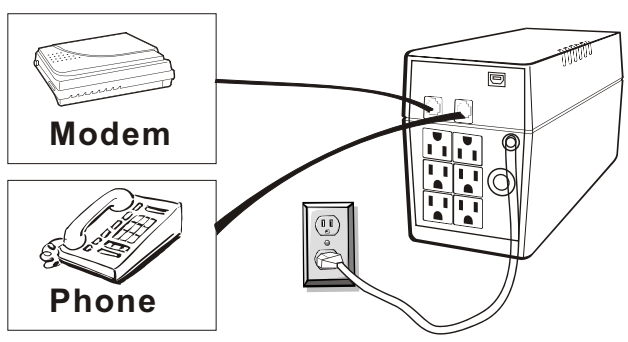
5 Modem/Phoneline Connection

Plug incoming internet line into the "In" socket at the back of the UPS. Use one more Internet line cable and plug one end of the Internet line cable to the "Out" socket at the back of the UPS. Plug the other end to the modem input socket as shown below.



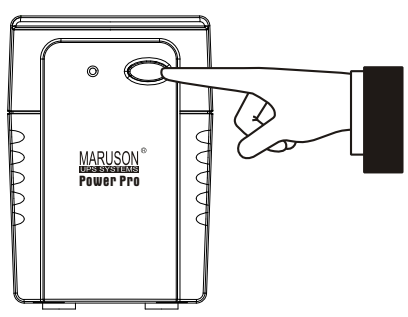
6 Connecting equipment to UPS

The Power Pro UPS 400/600/800 protects a single line (1 in/1out) phone, modem, or fax machine from surges when connected through the UPS as shown in the chart below.

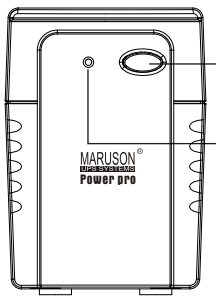


7 Turn On/Off

To turn on the UPS unit, press the power switch lightly. To turn off the UPS unit, press the power switch again.



UPS Indicators and Controls



Fault/ Low Battery/ Battery Replacement Indicator (red)

This indicator is lit whenever the UPS fault, and low battery occur, or the battery is near the end of its useful life. The battery should be replaced within two weeks.

Fault: continuously sounding
Low battery: sounding every second
Battery replacement: soundingevery 2 seconds

On/Off Button

Press and release the button to supply power to the Battery Power Supplied Outlets. Press and release the button again to switch off power to the Battery Power Supplied Outlets.

Note: The Surge Protection Outlets are powered **whenever the UPS has utility power.**

UPS Status Indicator(green)

This indicator is lit when the UPS is supplying conditioned utility power to the Battery Power Supplied Outlets. This indicator is flashing when the utility power is outside acceptable limits and the battery is powering only the Battery Power Supplied Outlets.

Battery Mode: sounding every 10 seconds
Overload: sounding every 0.5 seconds

MARUSON® TECHNOLOGY

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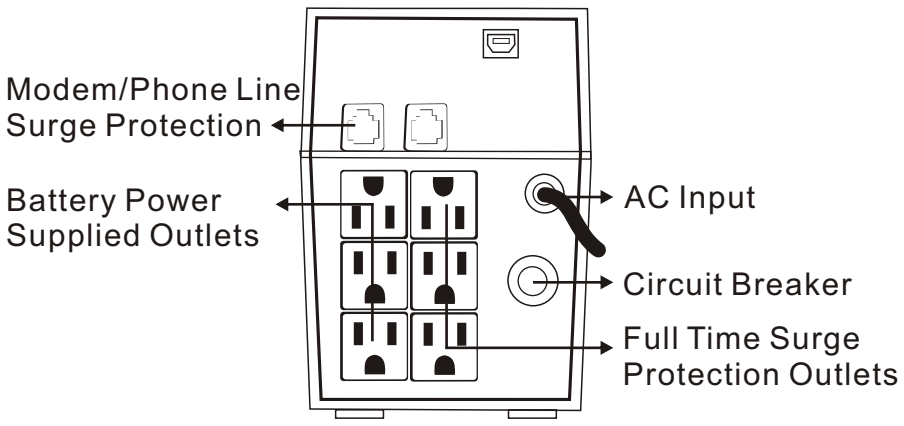
Panel Information



Safety Caution

SAVE THESE INSTRUCTION-This manual contains important instructions for models Power UPS 600 that should be followed during installation and maintenance of the UPS and batteries.

- This UPS utilizes voltage that may be hazardous. Do not attempt to disassemble the unit. The unit contains no user replaceable parts. Only factory service personnel may perform repairs.
- Internal battery voltage is 12Vdc.Sealed, lead-acid, 6 cells battery.
- Connection to any other type of receptacle other than a two-pole, three-wire grounded receptacle may result in shock hazard as well as violate local electrical codes.
- In the event of an emergency, press the "OFF" button and disconnect the power cord from the AC power supply to properly disable the UPS.
- Do not allow any liquids or any foreign object to enter the UPS. Do not place beverages or any other liquid-containing vessels on or near the unit.
- This unit intended for installation in a controlled environment (temperature controlled, indoor area free of conductive contaminants). Avoid installing the UPS in locations where there is standing or running water, or excessive humidity.
- Do not plug the UPS input into its own output.
- Do not attach a power strip or surge suppressor to the UPS.
- Do not attach non-computer-related items, such as medical equipment, life-support equipment, microwave ovens, or vacuum cleaners to UPS.
- To reduce the risk of overheating the UPS, do not cover the UPS' cooling vents and avoid exposing the unit to direct sunlight or installing the unit near heat emitting appliances such as space heater or furnaces.
- Do not open or mutilate the battery or batteries. Release electrolyte is harmful to the skin and eyes. It may be toxic.
- Attention, hazardous through electric shock. Also with disconnection of this unit from the mains, hazardous voltage still may be accessible through supply from battery. The battery supply should be therefore disconnected in the plus and minus pole at the connectors of the battery when maintenance or service work inside the UPS is necessary.
- Do not dispose of batteries in a fire as they may explode.
- A battery can present a risk of electrical shock and high short circuit current. The following precautions should be observed when working on batteries:
  1) Remove watches, rings, or other metal objects from the hands.
  2) Use tools with insulated handles.
  3) Wear rubber gloves and boots.
  4) Do not lay tools or metal parts on top of batteries.
  5) Disconnect charging source prior to connecting or disconnecting batteries terminal.
- Servicing of batteries should be performed or supervised by personnel knowledgeable of batteries and the required precautions. Keep unauthorized personnel away from batteries.
- When replacing batteries, replace with the same number and type of sealed lead-acid battery.
- This pluggable type A equipment with battery already installed by the supplier is operator installable and may be operated by laymen.
- The mains socket outlet that supplies the UPS shall be installed near the UPS and shall be easily accessible.
- During the installation of this equipment it should be assured that the sum of the leakage currents of the UPS and the connected loads does not exceed 3.5mA.
- Unplug the UPS prior to cleaning and do not use liquid or spray detergent.

Trouble Shooting

Symptom	Possible Cause	Remedy
No LED display on the front panel.	1. Battery voltage too low.	1. Charge battery up to 8 hours.
	2. Battery defect.	2. Replace with the same type of battery.
	3. Power switch is not pressed.	3. Press the power switch again.
Alarm buzzer beeps continuously when AC supply is normal.	Overload of the UPS.	Verify that the load matches the UPS capability specified in the specs.
When power failure, backup time is short.	1. Overload of the UPS.	1. Remove some noncritical load.
	2. Battery voltage is too low.	2. Charge battery 8 hours or more.
	3. Battery defect .	3. Replace with the same type of battery.
Mains normal but red and green LEDs are flasing	1. Breaker is trip.	1. Reset the breaker.
	2. Power cord is loose.	2. Reconnect the power cord properly.

If any abnormal situations occur that are not listed above, please call for service immediately.

Specification

MODEL		PRO-400USA	PRO-600USA	PRO-800USA
CAPACITY	VA/W	400VA/240W	600VA/360W	800VA/480W
6 Outlets		3 Battery with Surge Protection & 3 Surge Protection only		
INPUT	Voltage	110/120VAC or 220/230/240VAC		
	Voltage Range	81-290VAC		
	Frequency	50/60Hz		
OUTPUT	Automatic Voltage Regulation (AVR)	+/- 10%		
	Frequency Regulation (Batt. Mode)	50Hz or 60Hz +/- 1Hz		
	Output Waveform	Simulated Sinewave		
BATTERY	Battery Type & Number	12V/4.5Ah x 1pcs	12V/7Ah x 1pc	12V/9Ah x 1pc
	Backup Time (at a PC load with 15" monitor)	Up to 12 minutes	Up to 22 minutes	Up to 30 minutes
PROTECTION	AC Surge Protection	Full time, 720 joules		
	Phone/fax/ Modem Surge Protection	RJ-11		
PHYSICAL	Dimension (in.), DxWxH	12.9X3.9X5.5		
	Net Weight	11.023 lb.	13.22 lb.	14.33 lb.

Specification change without notice.

Recycling Information

Your UPS contain Non-Spill Sealed Lead Batteries. On the battery you will find the battery name. Please refer to the chart on the right for recycling information. Other brand(s) of battery please contact Maruson Technology. If outside of USA or Canada, please contact your local authorized distributor.

If you have any question regarding to our product, please contact us at 1-888-MARUSON or e-mail us at Custsrv@MarusonUSA.com.

Battery Name	Recycling inside the USA
CSB Battery	1-800-RE-USE-PB (7387372)
Panasonic	1-800-SAV-LEAD
YUASA	(877)288-7722

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